



BADGER STATE Smoke Signals



Serving Amateur Radio in Wisconsin

Published Monthly Since 1969

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Belgian Amateur Enjoys Wisconsin Ham Radio Hospitality



Jean Pierre Coenen, ON4KCH/NM9L, smiles in appreciation and displays the 1988 A.R.R.L. Handbook presented to him by Barb Regent, N9DIJ, wife of Section Manager Rich Regent, K9GDF, at the Bon Voyage dinner given by Travis (W9VQD) and Marion Baird. In the photo are, left

to right: Rich (K9GDF), George Pfister (W9IZQ), Barb (N9DIJ), Fred Krause (W9-VLK), Jack Krause (W9JK), Kathy Liddell (KA9HPA), Jean Pierre (ON4KCH/NM9L), Loren Liddell (WD9AUP), Fred Linn (W9-NZF), and Travis Baird (W9VQD).

(Photo by Les Peterson, W9YCV)

As previously reported by Richard Regent, K9GDF (Wisconsin ARRL Section Manager), Jean Pierre (ON4KCH/NM9L) came to Wisconsin to do some deer hunting; however, the ultimate objective of shooting a buck was not achieved. But, what Jean Pierre did experience was that the Ham operators in Wisconsin are a bunch of very cooperative and fun-to-be-with people.

Greg, KA9VII, with the assistance of his Ham family -- wife Patty, KA9VZV; daughter Stacy, KA9WDE; and son David, made the visit and hunting expedition in the Harshaw/Tomahawk areas a memor-

able experience for Jean Pierre. Through them, he made the acquaintance of these other Northern Wisconsin amateurs: Mike (KA9BHL), wife Diane (KA9BHK), Robin (KA9BHN), Kip (KA9BHM), Tony (N9BPM), Howard (K9CMB), Paul (KA9GOU), Tom (KA9YSK), Tom (KA9YQH), and Bob (KA9TFH), plus the amateur radio tolerant wives.

Jean Pierre's visit up there was further enhanced by enjoying Friday night fish fries twice -- where acquaintances became friendships during the "eyeball

(Please turn to page 7)

Ralph Haller, N4RH, Chief of PRB

Chairman Dennis Patrick has announced that Ralph A. Haller, N4RH, has been appointed as the new Chief of the Private Radio Bureau, effective immediately. Haller has been Deputy Chief of the Bureau since December 1986, and prior to that was Deputy Chief of the Policy and Rules Division, Mass Media Bureau.

The Private Radio Bureau oversees numerous radio services including the Amateur Radio Service.

Haller joined the FCC in 1971 as a Radio Inspector for the Los Angeles District Office. In 1976 he transferred to the Washington, DC headquarters, where he held positions in Enforcement Monitoring, Field Operations, Chief of Research, FCC Laboratory, and Chief of the Technical and International Branch, Mass Media Bureau.


Prior to joining the FCC, Haller worked in broadcast engineering in Kansas, while earning a BSEE Degree from the University of Kansas.

Haller has published numerous reports and articles, delivered presentations to industrial conventions, and chaired the Federal Advisory Committee for Cable Signal Leakage. N4RH is an Extra Class amateur and lives with his wife Mary in Fairfax, VA.

(From The ARRL Letter)

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**BADGER STATE
Smoke Signals**
Serving Amateur Radio in Wisconsin

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SUBSCRIPTIONS should be sent, with check or money order (do not send cash), to Jim Decker, address above.

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The opinions expressed in editorials, guest editorials, columns, articles, and letters are the opinions of the authors only, and do not, unless otherwise stated, express or imply agreement or endorsement by Badger State Smoke Signals, or any other organization.

Swapfests and other Social Events

SATURDAY, MARCH 5, 1988. Fifth Annual Swapfest, sponsored by W9HHX, Milwaukee School of Engineering ARC. 1121 N. Milwaukee St., RWJ Hall. Admission, \$2.00. Table \$3.00. SASE to W9HHX Swapfest, P.O. Box 644, Room C-6, Milwaukee, WI. 53201-0644.

SATURDAY, MARCH 12, 1988. Fox Cities Amateur Radio Club, Swapfest "88". Appleton High School - East, 2121 Emmers Drive, Appleton, WI. Amateur Radio Examinations (see test point). \$1.00 admission charge, Tables \$5.00. SASE to Don Baker, NB9J, 621 W. 7th St., Kaukauna, WI 54130. (414) 766-3886.

The WISCONSIN QSO PARTY will be held **MARCH 20, 1988**. Watch BSSS for further details.

SUNDAY, MARCH 27, 1988. Hamfest, sponsored by the Tri-County ARC. Jefferson County Fairgrounds, Jefferson, WI. Amateur Radio Examinations (see Test Point). Admission: \$2.50 advance, \$3.00 at door. Tables: \$3.00 advance, \$4.00 at door. SASE to Tri-County ARC, P.O. Box 321 Milton, WI 53563-0321.

SUNDAY, APRIL 10, 1988. 16th Annual Madison Swapfest. Sponsored by Madison Area Repeater Association. Dane County Expo Center, Forum Bldg. Admission: \$2.75 advance, \$3.00 at door. Tables: \$7.00 advance, \$8.00 at door. Contact: MARA, Box 3403 Madison, WI 53704. (608) 274-5153. Watch BSSS for ad with more details and map from this Badger State Booster.

APRIL 29 - MAY 1 - DAYTON HAMVENTION. This is the largest hamfest in the world. See QST and other publications, or SASE to Box 2205, Dayton, Ohio, 45401.

SATURDAY, MAY 7, 1988. Tenth Annual Cedarburg, WI Swapfest. Sponsored by the Ozaukee Radio Club. Circle B Recreation Center, Intersection of Highway 60 and County I. Amateur Radio Examinations (see test point). Admission: \$2.00 advance, \$3.00 at the door. Tables: \$3.00. SASE to O.R.C. Swapfest committee, 101 East Clay St, Saukville, WI 53080.

SATURDAY MAY 15, 1988. Tri-County Hamfest (Sheboygan, Manitowoc & Calumet Ctys.) Manitowoc County Expo, Intersection of hwy 42-151 and I43 on County Hwy R. Follow signs to center. Amateur Radio Examinations given (see Test Point). Admission: \$2.00 advance, \$3.00 at the door. Tables: \$3.00. SASE to Manacorad Radio Club, P.O. Box 204, Manitowoc, WI 54220. Watch BSSS for ad with more details and map.

SATURDAY, JULY 9, 1988. Swapfest "88". American Legion Post 434, Oak Creek, WI. Sponsored by the South Milwaukee ARC. Amateur Radio Examinations given (see test point). Tickets: \$3.00. Watch BSSS for ad with more details and map from this Badger State Booster.

As a service to our readers, this section of Badger State Smoke Signals is available without charge to list your upcoming Swapfest, Hamfest, dinner, picnic, party or other event of interest to Radio Amateurs in Wisconsin and nearby areas.

Send information on your event to Kenneth A. Ebner, K9EN, 822 Wauona Trail, Portage, WI 53901. In addition, space is available at attractive rates on our advertising pages. For information on rates and requirements for our advertising pages, please contact K9ZZ or K9EN.

Club Meetings

BADGER AMATEUR RADIO SOCIETY
(W9YT - UNIVERSITY OF WISCONSIN - MADISON)
Monthly while school in session - 2nd Wednesday - 7:30 p.m. - B-314, Electrical Engineering Building.

CENTRAL WISCONSIN RADIO AMATEURS, LTD.
(STEVENS POINT)
Second Wednesday.

EAU CLAIRE AMATEUR RADIO CLUB
2nd Tuesday - 7:30 p.m. - Parks and Recreation Bldg., Oxford and 1st Streets, Eau Claire. Hams, guests welcome. Travelers welcome on wide area club repeater K9UXP, 146.31/91.

FOUR LAKES AMATEUR RADIO CLUB (MADISON WI)
First and third Tuesdays - 7:30 p.m. - Red Cross Bldg., 4860 Sheboygan Ave.

FOX CITIES AMATEUR RADIO CLUB
Third Monday - 7:00 p.m. - Roosevelt Jr. High School, 318 E. Brewster St., Appleton. Info: (414) 735-6294. Winter Banquet, January 23, 1988. Contact KA9MPP.

GREEN BAY MIKE AND KEY CLUB
Second Thursday - Red Cross Bldg., corner Danz and Deckner, Green Bay.

GREEN FOX AMATEUR RADIO CLUB
Third Monday - 7:30 p.m. - Green Lake Town Hall, int. of county hwy. K and N.

KETTLE MORAINE RADIO AMATEURS
Second Friday.

MANITOWOC COUNTY RADIO AMATEURS
First Wednesday - 7:00 p.m. - City Hall, 817 Franklin St., Manitowoc.
Second Wednesday - Red Cross Building, 1816 Washington St., Manitowoc.

MENOMONEE FALLS AMATEUR RADIO CLUB
Last Tuesday - Doors open 7:30 p.m., meeting begins 8:00 p.m. - Security Savings and Loan, Menomonee Falls. Amateurs and guests welcome.

MILWAUKEE RADIO AMATEURS CLUB
Second Thursday - Wauwatosa Savings and Loan, 7500 W. State St.

OZAUKEE RADIO CLUB
Second Wednesday - 7:30 p.m. - Saukville Community Center.

RIVERLAND AMATEUR RADIO CLUB
First Tuesday - 7:30 p.m. - Onalaska Community Center, Onalaska WI.

ROCK RIVER RADIO CLUB
First Tuesday - 8:00 p.m. - Dodge County Sheriff's Dep't, 141 N. Main, Juneau WI.

SHEBOYGAN COUNTY AMATEUR RADIO CLUB
Second Tuesday - 7:00 p.m. - Sheboygan Red Cross/Boy Scout Bldg., 2032 Erie Ave.

SOUTH MILWAUKEE AMATEUR RADIO CLUB
First Wednesday - Legion Post 434, Shepard Ave., Oak Creek WI. Auctions in March and October.

TRI-COUNTY AMATEUR RADIO CLUB
Meetings are held at 7:00 p.m., the second Sunday of each month at the Trinity Lutheran Church, 314 Barrie, Fort Atkinson, WI.

WEST ALLIS RADIO AMATEURS CLUB
Second Tuesday - 8:00 p.m. - St. Francis Savings, 9330 W. Greenfield Ave.

WISCONSIN VALLEY RADIO ASSOCIATION (WAUSAU)
First Tuesday - 7:30 p.m. - Location varies; info on 146.04/64, Wausau.

YELLOW THUNDER AMATEUR RADIO CLUB (BARABOO)
Days rotate: 1988 dates: Tue., Feb. 16, Wed., Mar. 16, Thu., Apr. 14, Mon., May 16, Tue., Jun. 14, Wed., Jul. 13, Thu., Aug 11, Mon., Sep. 19, Tue., Oct. 11, Wed., Nov. 16, Thu., Dec. 15. Monday meetings in room 10 of the Baraboo Civic Center; others room 25. Meetings start 7:30 p.m.

The TEST POINT



The following are known locations where Amateur Radio license examinations are scheduled in the Badger State area.

February 13, 1988	Bloomington, MN
February 20, 1988	Milwaukee, WI (BE)
February 20, 1988	Milwaukee, WI (MRAC)
February 27, 1988	Madison, WI
February 27, 1988	Robbinsdale, MN
March 10, 1988	Onalaska, WI
March 12, 1988	Bloomington, MN
March 12, 1988	Appleton, WI
March 19, 1988	St. Paul, MN
March 19, 1988	Milwaukee, WI (MRAC)
March 19, 1988	Menomonie, WI
March 19, 1988	Ft. Myers, FL
March 26, 1988	Wisconsin Rapids, WI
March 27, 1988	Jefferson, WI (BE)
April 9, 1988	Madison, WI
April 16, 1988	Milwaukee, WI (BE)
April 16, 1988	Eau Claire, WI
May 7, 1988	Cedarburg, WI (BE)
May 14, 1988	Manitowoc, WI
June 16, 1988	Onalaska, WI
June 18, 1988	Menomonie, WI
June 19, 1988	Stevens Point, WI
July 8, 1988	Eau Claire, WI
July 9, 1988	South Milwaukee, WI (BE)
July 9, 1988	Eau Claire, WI
September 24, 1988	Wisconsin Rapids, WI
October 15, 1988	Eau Claire, WI
November 12, 1988	Menomonie, WI
December 3, 1988	Stevens Point, WI
March 18, 1989	Menomonie, WI
June 17, 1989	Menomonie, WI
November 11, 1989	Menomonie, WI
Monthly, First Sat.	Racine, WI
Monthly, Third Sat.	Loves Park, IL

GENERAL RULES FOR MOST EXAMINATIONS:

Most examinations require filing an FCC Form 610 and advance registration at least 30 days before the exam date. (Some VECs permit walk-ins. Check with sponsor.)

To register, you must first secure a copy of the current FCC Form 610 and fill it out completely (AND CORRECTLY). Get your form from an FCC Field Office, the ARRL or Badger State Smoke Signals. Send a 22¢ SASE if you request one from the ARRL or BSSS. In most cases, forms can also be obtained from the sponsoring group.

ARRL/VEC examinations require a check for \$4.55 payable to "ARRL/VEC".

The FCC now requires applicants to show their original Amateur license to the VEC. A copy of your license must be attached to your FCC form 610.

Technician class licensees must show proof of testing before March 21, 1987, in order to upgrade to General with a code test only.

Additional information is given below.

MILWAUKEE METRO AREA TEST TEAM - MRAC/VEC (MRAC)

February 20, 1988 & March 19, 1988

Tests are given at 9:00 AM in room 256, Wauwatosa East High School at 74th and Milwaukee Ave. Use the east (74th St.) entrance.

Bring your original license and 3 good photocopies, a pen, and \$4.55 for the exam fee. Walk-ins accommodated if time permits.

Register in advance on a Postal Service 14 cent postcard; print the grade of license you are

applying for, your name, address, and telephone number. Send to: The Milwaukee Radio Amateurs' Club, Inc., N50 W16328 Pin Oak Court, Menomonie Falls WI 53051.

BADGER EXAMINERS (BE) - MILWAUKEE

February 20

March 27 (at Jefferson Swapfest - 10:30 a.m.)

April 16

May 7 (at Ozaukee Club Swapfest in Cedarburg - 9:00 a.m.)

July 9 (South Milwaukee Swapfest)

Unless otherwise noted, examinations are administered from 1 to 4 p.m. at St. Nicholas Parish, 5353 N. Green Bay Ave. (2 1/2 blocks south of Silver Spring), Milwaukee. Bring your original license, a good photocopy of it, and a second form of ID. Walk-ins are welcome. Technician license holders must bring proof of testing prior to March 21, 1987 to upgrade to General with code test only. Advance registration: send post card with your name, test or tests you wish to take, date you wish to be tested, your call sign, address and phone number to Badger Examiners, Mickey Dolgin, KB9G, 507 E. Spooner Rd., Fox Point WI 53217 (414) 351-5311.

APPLETON, WI

March 12, 1988 - Fox Cities Swapfest

Contact: Larry Siebers, KD9IA

7077 Weyers Rd.

Freedom, WI 54130

(414) 788-3823

MANITOWOC, WI

April 14 - Hamfest

Contact: Mancorad Radzio Club

P.O. Box 204

Manitowoc, WI 45220

ONALASKA, WI

Thursday, March 10, 1988

Thursday, June 16, 1988

Both exams will be at the Onalaska Community Center, 515 Quincy Street, Onalaska, WI 54601. Reservation recommended. Contact Rick Williams, KV9U, 524 Troy Street, Onalaska, WI 54650, phone (608) 783-8028. Walk-ins accepted but no guarantee of exam availability.

STEVENS POINT, Wisconsin

June 19 and December 3, 1988

By Central Wisconsin Radio Amateurs, Ltd. Contact Joseph W. Larson, N9JW, 644 Portage St., Stevens Point, WI 54481. (715) 344-1182.

WISCONSIN RAPIDS, WI - ARRL/VEC

March 26 and September 24, 1988

March 26, 1988 - 9 a.m. at Mid-State Technical College, 500 32nd Street North, Wisconsin Rapids. Talkin on 145.29 repeater. Walk-ins accepted. Contact Eugene R. Santoski, K9UTQ, 1220 18th Street South, Wisconsin Rapids, WI 54494. (715) 423-6368.

EAU CLAIRE, WI - W5YI/VEC

9:00 A.M. to Noon, except July 8, 1988, 6:00 P.M. to 9:00 P.M. Exams are given at the University of Wisconsin Facilities Management Building in Eau Claire, except that the July exams are given in conjunction with the Eau Claire Amateur Radio Hamfest. There is no pre-registration requirement. Contact: Carl Searing, W9NW, 1129 McKinley Road, Eau Claire, WI 54703. (715) 834-1303.

MENOMONIE, WI

Credit Union Office Building, Conference Room, lower level, 444 S. Broadway, Menomonie, WI. Contact: Dr. Thomas W. King, KD9TT, c/o office, 444 S. Broadway, Suite 1, Menomonie, WI 54751. (715) 235-4747 (D), 235-5757 (H).

FOUR LAKES ARC (ARRL/VEC)

Madison, WI

February 27, 1988 and April 9, 1988

Fire Station #2, at 421 Grand Canyon Dr. They start at 8:30 a.m. sharp.

RACINE, WISCONSIN - ARRL/VEC

First Saturday of each month except during summer and the Christmas holidays.

Exams are given at the Red Cross Building, 4521 Taylor Ave., Racine, WI. Walk-ins are permitted.

Send pre-registration to: William R. Firchol, Jr., N9DMP, 1912 27th Street, Kenosha WI 53140.

Third Saturday of every month.

Northern Illinois Volunteer Examiners (DeVry VEC). Held at North Suburban Library on North Second Street in Loves(Park, IL. Contact: Gene Melton, AK9N, 2901 Billie Rd., Rockford, IL 61109, (815) 874-6867

FORT MYERS, FLORIDA (ARRL/VEC)

March 19, 1988

Combine a Florida vacation with an upgrade exam - the best of two worlds! Contact Bob Strathy, WV4F, 5428 Brandy Circle SW, Fort Myers FL 33919. (813) 481-4880.

Minnesota Tests. Contact:

Amateur Radio Association of Bloomington, Art Putt, 881-7187.

Robbinsdale Amateur Radio Club, Ron Schultz, 920-7473. February 27, 1988 exams are held in conjunction with Mid-Winter Madness.

St. Paul Radio Club, Jay Bellows, 222-7253.

This section of Badger State Smoke Signals is available to publicize your Volunteer Examiner Amateur Radio license examination schedules.

Please send us your schedules of dates, times, and locations that you will be conducting examinations and we will include the information here. Be sure to include contact address and any other necessary requirements. Information should be sent to K9EN or K9ZZ at the address shown on page 2.

FREE WANT ADS in BADGER STATE SMOKE SIGNALS

Yes, they are FREE. BSSS will run your WANT AD listing Amateur Radio related equipment you wish to buy, sell, trade, or whatever. Non-commercial listings only. Length and number of free ads may be subject to space limitations. We reserve the right to refuse any listing that we feel is inappropriate. Send to Kenneth A. Ebner, K9EN, 822 Wauona Trail, Portage, WI 53901.

FOR SALE: Kantronics Interface I, RTTY/ASCII/CW, with card for Apple. \$48.00. National NCX-3 80, 40, 20 meter transceiver with mobile and home station power supplies. \$75.00, or trade for 2-meter FM rig. Microtech serial (RS-232) board for Apple. \$35.00. Todd Hebert, N9EQP, 2122 Taft Ave., Eau Claire WI 54701. (715) 832-6374.

Wisconsin Nets Association Ltd.

WISCONSIN NETS					
NET	WNA	FREQ	UTC	CST	MANAGER
BWN	YES	3984	1200Z	0600	WD9IID
BEN	YES	3985	1810Z	1200	KA9RII
WSBN	YES	3985	2330Z	1730	WB9ESM
WNN	YES	3723	0000Z	1800	N9DGL
WSSN	YES	3645	0030Z	1830	N9BDL
WIN-E	YES	3662	0100Z	1900	WB9ICH
WIN-L	YES	3662	0400Z	2200	KC9CJ
NWTN	YES	34/94	0030Z	1830	KA9VII
GR.BAY	NO	72/12	0245Z	2045	WB9NRK
THU WED					
RACES	NO	3993.5	1815Z	1215	WC9AAG
USB TUE. & THUR.					
RACES	NO	3993.5	1400Z	0800	WA9OAY
LSB SUN.					

Section Manager's notes

Richard R. Regent, K9GDF
5003 South 26th Street
Milwaukee WI 53221

Congratulations and thanks to N9BDL, Lee, for being net control station 402 times last year, mostly on WNN, WSSN, and WIN/E.

March 12th, Fox Cities ARC Swapfest, Appleton East High School.

The 1988 Wisconsin QSO Party starts at noon on March 20th. Get on the air to meet Wisconsin Amateurs. Give the Wisconsin QSO Party a try, check QST Contest Corral, the next issue of Badger State Smoke Signals, or ask other amateurs for details.

March 22nd, Tri-County ARC Swapfest, 8 a.m., Jefferson County Fairgrounds, walk-in exams by Badger Examiners begin at 10:30 a.m., talk-in on 146.52 MHz.

The Badger State Smoke Signals newsletter promotes Wisconsin Amateur Radio with exam lists, club meeting schedules, plus news, packet radio updates, and features. Contact K9ZZ, K9EN, or WB9UQT for information on how you or your club can subscribe to the BSSS.

Sorry to report Silent Key W9FBU.

KA9WWT, John, of Kellnersville says he thought he finally was working TG9MB in Guatemala on 20 meters SSB. But after several exchanges, John finally discovered it was lucky K9WWT of Hammond, Indiana, who the DX station was QSOing.

CAND REPORT FOR DECEMBER 1987 X 1573 MESSAGES IN 31 SESSIONS X D9RN REPRESENTED 100 PERCENT WISCONSIN STATIONS KA9RII W9CBE AND N9BGE 73 - BILL WB5YDD ASSISTANT MANAGER.

D9RN REPORT FOR DECEMBER 1987 X 544 MESSAGES IN 62 SESSIONS YOUR SECTION REPRESENTED 98 PERCENT BY KA9RII N9BGE W9CBE KA9USV KA9VII N9GJI X 73 HAPPY NEW YEAR - DON NN9M NET MANAGER.

9RN CYCLE 4 REPORT DECEMBER 1987 TRAFFIC 682 IN 62 SESSIONS WISCONSIN PARTICIPATION 84 PERCENT STATIONS K9BED W9CBE W9CXY WB9ICH W9NK K9UTQ W9YCV 73 - W9JUI NET MANAGER.

UNIVERSAL TRAFFIC QUERIES

Gene Santoski, K9UTQ
Section Traffic Manager
Wisconsin Section ARRL
1220 18th St. So.
Wisconsin Rapids, WI 54494

As you will recall, last month I discussed how to check into a CW traffic net.

YES, BUT HOW TO I CHECK A PHONE NET?

Well, the best way to answer that is to give you an example of a typical voice net just as I did with the CW net last month.

A voice net is conducted in much the same way as a CW traffic net but with a few alterations. For one thing, you NEVER use QN signals on a voice net or, for that matter, use of ANY Q-signals is not proper procedure on a voice net.

To start things out, the NCS will give a brief preamble which serves to present basic information about the net as well as a signal marker for net participants to zero in on.

NCS will then ask for stations with Emergency or Priority traffic. After that, NCS will ask for a liaison station to or from the Region Net.

On a voice net, when you check in with traffic you simply say:

W9NCS this is K9UTQ TRAFFIC

Notice that the station checking in did not state the destination of the traffic or how much traffic he has to offer. Instead, he simply let the Net Control know that he has traffic. When the NCS acknowledges his checkin he will ask that station to list his traffic. That station would then respond with:

This is K9UTQ I have 1 Wausau, 2 Green Bay and 1 Marinette and one Thru.

This response is simple and to the point. Also note that no destination is given for the Thru traffic. This is not needed at Section Level. Where it is needed is at the Region level and the Region rep who takes the thru traffic will know its destination from the addressee in the message. When the Region rep checks into the Region net he will then state the destination so that proper routing can be set up for the traffic. In other words, if you check a Section net with out-of-section traffic, just say "THRU" and that is all. At that level of NTS it makes no difference where it is going. You merely let NCS know that you have thru traffic and he will get you together with the Region Rep to pick it up.

If, on the other hand, you check a net without traffic, just say:

W9NCS this is K9UTQ - No Traffic

Simple enough huh?

Usually, NCS will ask for stations WITH TRAFFIC ONLY for the net first and then follow up with general checkins with or without traffic. After several standbys for checkins, NCS will start getting stations together to pass traffic.

Dispatching traffic off frequency in the phone bands is not quite as easy as down on the CW segments simply because there are many more stations and nets operating closer together-

especially with regard to the evening phone nets. The Badger Emergency Net which convenes at 12 noon does not have a problem with this because of mid-day propagation on 75 meters. Late afternoon and evening is a totally different story - especially in the Winter months when the skip really reaches out there. Consequently most traffic is handled on net frequency in the evening phone nets.

Phone nets are usually somewhat more relaxed and informal than the CW nets because of the very nature of the mode, but be aware of the fact that this informality can lead to laxity if not kept within bounds.

As on CW nets, the NCS will periodically standby for additional checkins which would favor those stations who could not be present for the initial callups. Listen carefully before NCS stands by as he will list any traffic remaining to be passed and if you can handle it check in and grab it. If you can take a piece of traffic just say:

W9NCS this is K9UTQ I can take the Wisconsin Rapids traffic.

WHAT ABOUT RTTY NETS?

Well, on RTTY, CW procedure can be used for the most part, with adaptations as necessary to accommodate circumstances peculiar to RTTY. At present, there are no RTTY traffic nets operating in Wisconsin. It is not likely that there will be in the future either with the great influx of Packet Radio and its inherent error-free transmission protocol. On RTTY there is always a chance for error due to static, fading or some other phenomenon. On packet, that can't happen because it is an error-free mode of data transmission regardless of band conditions. More on packet traffic handling in a future issue of Smoke Signals.

THERE IS A NET OPERATING ON OUR LOCAL REPEATER. CAN THIS BE USED FOR HANDLING TRAFFIC?

Yes it can. In fact, more often than not, a VHF repeater is your only outlet to certain localities within the coverage area of the repeater as no stations are on the HF nets from many cities but there are stations on 2 Meters. At present, there is only one NTS affiliated traffic net operating on 2 meters on a daily basis. That is the Northwoods Traffic Net on the Rhinelander 34/94 machine. That net meets at 1830 local every day. The net manager for that net is Greg Garner KA9VII. There are other nets held weekly on various repeaters but they are not classified as NTS nets because they don't provide the required liaison to the Section Net on a daily basis. Some of these nets are purely informational in nature. Others are ARES nets. However, if you check into one of these nets with a piece of formal traffic you should be able to get it passed to the proper station for delivery. Also, by doing this, you are promoting traffic handling to many stations who have never been in contact with a traffic net and who have never handled a piece of traffic. This is your opportunity to guide them through the proper procedures and to invite them to participate in the Section nets if possible. Remember, we can always use new recruits in our nets.

73 de K9UTQ

(more WNA news on page 15)

How to Present an Award

By Richard R. Regent, K9GDF
5003 South 26th Street
Milwaukee WI 53221

Imagine being able to present a winning load of cash, a paid vacation, or a spectacular valuable gift to an active amateur radio operator - a top traffic handler, contest high scorer, public-service communicator, a long-time loyal group member, or emergency-event volunteer. Got the picture? Unfortunately, we're just day-dreaming. But even without illegal big bucks or a chauffeured limousine, real unpaid Ham heroes and heroines who display dedication of purpose, volunteer tremendous effort, and invest time toward an altruistic goal, can be presented with a big ego boost - commonly called awards.

Everyone has that deep yearning to be somebody: a need which relies on receiving recognition or high regard from others. Awards fill that need, and besides, an award presentation can be enjoyable and fun for everyone, including the presenter. The award presenter says some important words; the award recipient receives the ego boost and a glittering plaque, trophy, or a colorful certificate; and the audience expresses their appreciation with applause.

If you are chosen by fellow club members to officially present an award, consider it an honor. Members trust you with the critical task because they feel you are capable. Then it is your responsibility to present the award in the best way you can.

There are three steps to presenting an award properly:

1 - HONOR THE RECIPIENT

Start with an attention-getter or preview. Tell the group that they have come together to pay honor to someone. Mention the purpose of the award. If it is a unique, award sponsored by a club or group, tell a little about the background of the organization and how it is interested in the life and activities of the person to be honored. Explain simply the reasons why someone enduring long service, winning a contest, achieving notable success in a particular effort, or having commendable traits, deserves an award. Make the recipient feel like somebody deserving the honor. Describe the award if it is of particular beauty.

2 - DELIVER THE AWARD

First, give a short review of the person's accomplishments for this award. Next, slow down a little, clearly make a memorable single-sentence statement, and end with the person's name and call. Then, if you have done everything right, there should be applause. Finally, without waiting for the applause to stop, shake hands with the



person, say "Congratulations!", and carefully deliver the award.

3 - LET THE RECIPIENT SAY THANKS

Step out of the way to allow the person to say a few words of thanks.

Besides these steps, there are a few dos and don'ts to keep in mind when presenting an award.

DO:

1. Give careful thought to what you will say and say it sincerely.
2. Be brief, pick out only the main outstanding achievements.
3. If the award is significant, include a few of the recipient's dominant personal traits or an example of influence on others.
4. Note previous recipients if it adds honor to the current recipient.

ON THE OTHER HAND, DON'T:

1. Excessively praise or exaggerate.
2. Emphasize award cost or intrinsic value.
3. Talk about those who almost won.
4. Use humor, unless you're certain it's appropriate.
5. Enumerate the person's accomplishments, it's not a technical report of a machine output.
6. Forget to bring the award; if you do, present a piece of paper with a written promise that the award will be delivered later.
7. Talk about how great you are; the award is for the other person, not you.

Awards are commonly presented at many ham radio meetings. Besides being able to thank and honor hard workers for their accomplishments, the occasion may inspire others to do well or better. If you're selected to present an award, plan what you'll say and practice with some good coaching to improve your skills. Then you can help a fleeting moment to be cherished, carefully filled with words and thoughts that a deserving person will brightly remember all the rest of their life. (Next month: How to accept an award)

STEVENS POINT EXAM RESULTS

Here are the results of the December 5, 1987 examinations which were held at the Blue Top Supper Club:

Gordon L. Miller, unlicensed, Stevens Point, passed 13 WPM code test, and Novice, Technician, General, and Advanced written examinations.

Gary W. Allen, unlicensed, Red Granite, passed 5 WPM code, and Novice and Technician written exams.

Ronald W. Boulieu, KA9IKV, Marshfield, upgraded to Technician.

Carl H. Bruse, KA9TIF, Wisconsin Rapids, upgraded from Novice to General.

Bruce D. Heidemann, WD9BKV, Wausau, upgraded from Novice to General.

Richard L. Pawlowski, KA9VLT, Eau Claire, upgraded from Novice to General.

Raymond J. Sunderland, K9ANV, Schofield, upgraded from General to Advanced.

Gene R. Kroll, KA9ZNV, passed General written examination.

Volunteer examiners were W9BCC, K9UTQ, NI9P, NE9U and KF9L. Of 12 applicants tested, 7 successfully upgraded, for a passing average of 58%. Of 24 examination elements administered, 19 were passed successfully for an average of 79%.

Thanks for the above info to W9BCC and K9GDF.

Editor's note: Gordon Miller, at the top of the above list, went from no license to Advanced in one day. Well done!! And congrats to the others, too.



Ernie, I got it! We'll enter Field Day as a multi-operator, single-transmitter, QRP mobile packet Novice station!

COUNTRY HAM

If you enjoy vintage country music, you'll enjoy listening to Chris Zenchenko, WB9RSQ, on his monthly country oldies show on WTSO, AM 1070 in Madison. It's usually on a Wednesday, from 6 to 8 or 9 p.m. Listen to the station to find the exact day and time.



The January meeting of the Riverland Amateur Radio Club was called to order at 7:30 p.m. by President Gary Webb, NI9V. The minutes of the last meeting were accepted as published in the BSSS.

37/97 REPORT

Van (WA9FIO) reported that he rebuilt the amplifier and was able to hear the repeater about 80 airline miles south of La Crosse. A matching network had cooked, a capacitor had shorted the power supply to ground. Van will rehash the possibility of refurbishing the repeater components, and handouts will be presented at the next meeting.

Donations are coming in for the repeater fund (\$400).

JACKETS

Craig (N9ETD) absent.

ANNUAL CHRISTMAS PARTY

Party Chairman Bill Wood (WB9VYI)



re-announced the time (7:00 p.m.). Place - Nob Hill, and date January 16, 1988. We are hoping for 40 people.

OLD BUSINESS

No news regarding tower problem. It is possible that the county board has dismissed any action.

NEW BUSINESS

No election of officers was held because of low attendance. The election will be held at the February meeting. The offices for President, Vice President, and Secretary-Treasurer are open. Please be in attendance!

VEC EXAMS

Rick (KV9U) announced that exams will be scheduled for Thursday, March 10, 1988, and also for Thursday, June 16, 1988. Both exams will be held at 7:00 p.m. at the Onalaska Community Center. Please register in advance by notifying Rick Williams (KV9U).

DUES

The dues are now \$15.00, and are payable now.

Meeting adjourned at 8:05 p.m.

Members present: 18. Guests: 2.

Submitted by Sec.-Treas. Dick (KØJYB)

Meet the Franks



Here are the Franks.. John, WB9TQG, and La Vonne, AC9J. La Vonne was originally licensed in 1969 as WN9BVC, and was relicensed as a Novice in 1977, with the call sign WD9ESB. She upgraded to Amateur Extra in 1978, and received the call sign AC9J. She works mostly HF, both CW and SSB. John was

first licensed in March 1976 as a Technician. He currently holds an Advanced Class license. John operates mostly FM, with an occasional venture to SSB. John writes "John's Junk Box" and "Repeater Profiles" for this paper, for which we are grateful. The Franks reside in Madison. - K9ZZ Photo

DSI MESSENGER MODEM-HELP NEEDED

Does anyone have experience with the combination of a Commodore C-128 computer and a DSI Messenger modem? When using this pair with the disk supplied by Quantum Link, it is impossible to make the modem operate at 1200 baud, even by selecting the 1200 baud Commodore modem from the menu. The modem does not have a speed select switch; the speed appears to be software selectable only. If anyone has information on making this combination work at 1200 baud, or a schematic diagram of this modem, please write to John Schmelzer, 1121 Washington Street, Baraboo WI 53913, or call K9ZZ at (608) 356-4249. Any information will be greatly appreciated!

WANTED: Your articles and photos for Badger State Smoke Signals! Help keep BSSS interesting; send 'em to K9ZZ. The address is on page 2.

BSSS CLUB DEAL

Let Badger State Smoke Signals serve your club's members as your club's newspaper. The cost to your club is as little as \$4.20 per member per year (that's as low as 35 cents per member per month). Your club's minutes will be published for you monthly, along with other items of interest which you submit for publication, including photos. You also get all the other news and information contained every month in BSSS. For full information and requirements, contact Ken Ebner, K9EN, 822 Wauona Trail, Portage WI 53901, or call Ken at (608) 742-3560.

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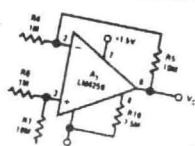
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John's



Junk Box



By John W. Frank, WB9TQG
P.O. Box 5113
Madison, WI 53705

MY TRIP TO THE AUTO PARTS STORE

What, you might ask, does a trip to the auto parts store have to do with the hobby of ham radio? If you scrounge for parts and make do with what you have available as often as I do, a lot.

For example, the clamps holding the vertical antenna together in the back yard are the same as the hose clamps I use on my 1967 Pontiac. What else can you get at an auto parts store? How about muffler clamps? I have two of them up on the tower holding homebrew inverted vee brackets.

If you ever lose the cap off a rubber ducky antenna, just look for a "vacuum cap" of the right diameter. These caps come in different sizes and colors. I went so far as to color code some rubber duckies so I don't get the wrong ducky on the wrong radio. Vacuum caps can also be placed over the end of a whip antenna to cover the sharp, pointy end. If you ever need to keep dust and dirt out of chassis mount BNC or F connectors, just use a

vacuum cap to cover the connector when it has nothing connected to it.

Have you ever needed an extra large grommet? Try using a PCV valve grommet from a late model GM car or light truck. These grommets are large enough for a piece of RG-8 or several smaller wires to go through them.

If you want to keep your wiring harnesses neat, nylon cable ties and spiral wrap are available at many auto parts stores.

Do you need a relay to feed power to some high current load in your mobile installation? Relays used for fog and driving lights lend themselves very well to this type of use. Speaking of mobile installations, many auto parts stores carry heat shrink tubing, terminal strips, fuse holders, hookup wire, ground straps, crimp-on terminals, and wire taps.

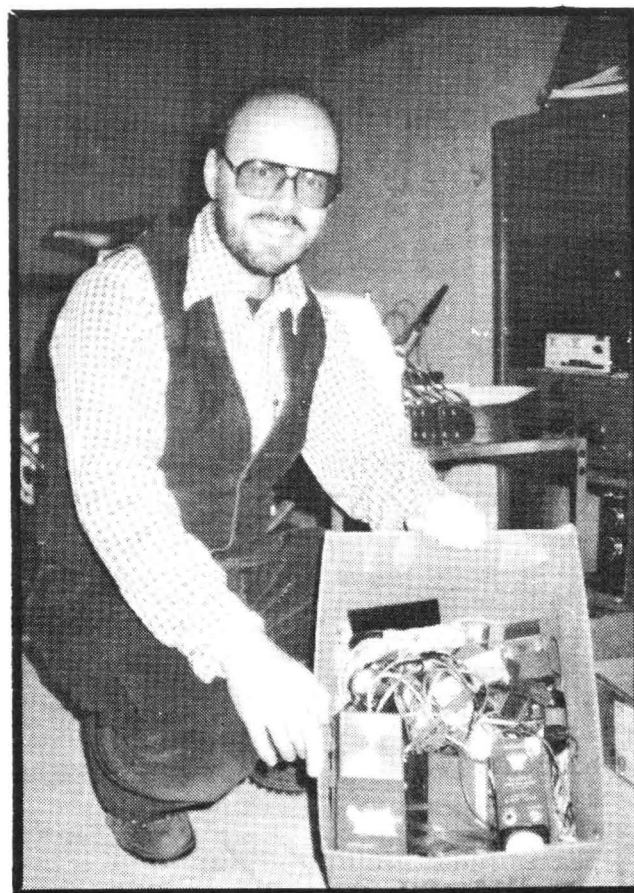
One of the niftiest things I've found in an auto parts store was a package of wire numbers meant to be used to number spark plug wires. You don't ordinarily see spark plug wires in ham shacks; however, these numbers could be used to help identify the cables in your shack and help you keep track of which wire goes where. Speaking of spark plug wires, the boots that go over the spark plugs can sometimes be purchased separately and used with some types of coax to cover the connector when used outdoors.

The next time you are in an auto parts store, take a look around, use your imagination, and you may find just what you need to put the finishing touches on some ham radio project.

73 DE John, WB9TQG

John

and his Junk Box



We don't want our readers to think the title "John's Junk Box" is merely a figment of our literary imaginations. Above is none other than John W. Frank, WB9TQG, author of "John's Junk Box" and "Repeater Profiles," carried alternate months here in Badger State Smoke Signals. To dispel all possible doubt about his junk box, he is displaying it for all to see. Actually, there are more boxes of "stuff" in his basement than just this one. John is a builder, a modifier, and, in some cases, a resurrector of electronic items of various vintages. Be sure to watch the major ham radio publications for occasional TQG goodies.

BELGIAN AMATEUR ENJOYS WISCONSIN HAM RADIO HOSPITALITY

(Continued from front page)

QSOs" that took place with this group which helped to make this dream come true.

Two others who made his visit to Wisconsin possible and memorable were Travis (W9VQD) and wife Marion Baird. Their home was Jean Pierre's home away from home, and Travis had made the arrangements with Greg for the deer hunting expedition. In addition, they, as host and hostess, held a Bon Voyage party in their home just prior to his return to Europe. In addition to wives and other guests, the following Greater Milwaukee area amateurs were present:

Barb Regent, N9DIJ, wife of Rich
Kathy Liddell, KA9HPA, wife of
Loren
Loren Liddell, WD9AUP
Fred Linn, W9NZF
Jack Krause, W9JK
Fred Krause, W9VLK
George Pfister, W9IZQ
Les Peterson, W9YCV

It is interesting to note that those amateurs in the cover photo, including the "amateur photographer", W9YCV, represent a combined total of 377 years of amateur radio experience.

Jean Pierre has departed but he will return. He has made that known, and we all look forward to his future visit.

I am sure that I speak for Jean Pierre when I say -- many, many thanks to all who, in various ways, made this three week visit to Wisconsin such a wonderful event.

- Les Peterson, W9YCV
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Rich Regent, K9GDF, ARRL
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356-3295. Harvard D. Hamer, K9YHO.

COMMISSION SHORTAGE

The FCC, which is supposed to consist of five members, is now down to three.

The Commission had been one member short since last April, when Mark Fowler departed. Since Mimi Weyforth Dawson was sworn in as Deputy Secretary of Transportation the week of December 21, the Commission is functioning with only three members at the present time.

Three commissioners do, however, constitute a quorum, so the Commission will continue to take action on issues under consideration.

The White House has nominated Bradley Holmes, 34, a former aide to FCC Chairman Dennis Patrick and Chief of the Mass Media Bureau's Policy and Rules Division, to take over Fowler's seat.

Washington attorney Susan Wing has been nominated to complete the term vacated by Mimi Dawson, as well as to serve a full term of her own.

(Thanks The ARRL Letter)

FCC BROADCAST CALL ASSIGNMENTS

The FCC has reversed itself on the issue of geographical issuance of broadcast call signs.

On February 4, 1987, the Commission had proposed to end the issuance of "W" and "K" broadcast call signs on a geographical basis. Generally, radio and television stations East of the Mississippi River are issued call signs beginning with "W", and stations West of the Mississippi are issued call signs beginning with the prefix "K".

The Commission, upon examining the comments filed, changed its mind and now feels there is some benefit in maintaining the traditional K and W call sign assignments. The Commission also said that there is no shortage of call signs that would require the elimination of the East-West restriction on the assignment of K and W call signs. Thus, the Commission elected to retain the geographic restriction on the assignment of K and W prefixes to broadcast stations.

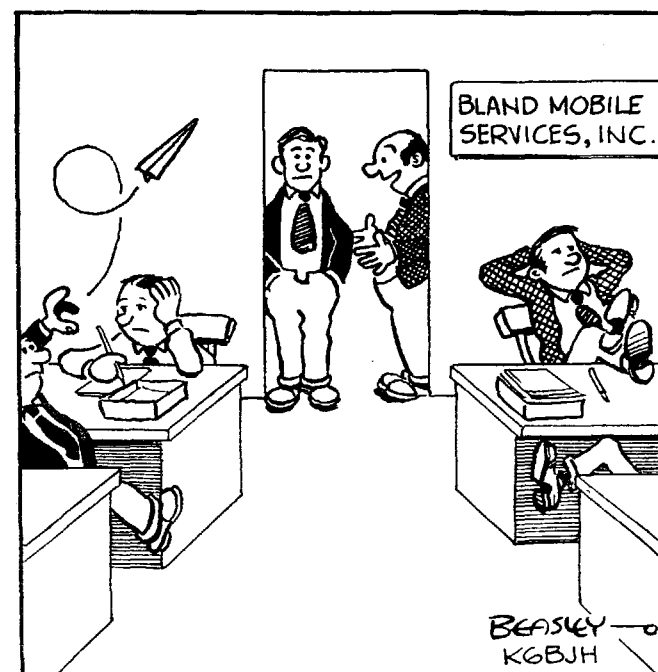
(From The ARRL Letter)

1988 QSO Party

The 1988 Wisconsin QSO Party, sponsored by the West Allis Radio Amateur Club, will be held from 1800Z March 20 thru 0100Z March 21, 1988. Rules and an entry form were sent to 1987 participants. If you did not receive an entry form and need one, you may send an SASE to Wisconsin QSO Party, West Allis Radio Amateur Club, P.O. Box 1072, Milwaukee WI 53201, and the form will be sent to you. Or, you can wait for the next issue of this paper; a form to clip out and use will be published in that issue.

- Thanks WA9POV

REMINDER: Items for Badger State Smoke Signals must be received no later than the 10th of the month if they are to be published in the next month's issue, i.e., March items must be here by February 10.



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Interested in packet radio? A new net has been formed in Wisconsin to help packet enthusiasts share information and ideas. The Packet Enthusiasts Net (PEN) meets on 3985 KHz at 10 a.m. on Saturdays. All checkins are welcome.

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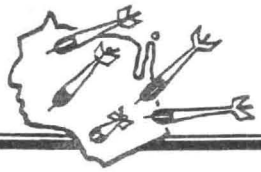
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HERE and THERE



Ron Gorski, N9AU, (right) receives "Club Member of the Year" award for 1987 from Dave Engelmann, WB9GZP, Awards Committee Chairman at the West Allis Radio Amateur Club annual awards dinner. Congrats, Ron!

-Photo by Les Peterson, W9YCV

16/76 MADISON EMERGENCY AUTOPATCH NUMBERS

If you operate 2-meter FM in the area of the Madison Area Repeater Association's 146.16/146.76 repeater in Madison, you might want to clip out the list below and carry it with you. The numbers listed, except the first number, are emergency telephone numbers. The "message" is what the repeater's digital voice will say before it dials the number for the agency you are calling.

EMERGENCY AUTOPATCH NUMBERS FOR MARA 16/76, MADISON WI

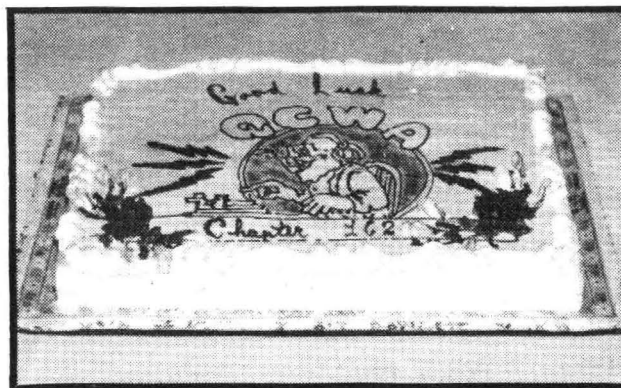
CODE	MESSAGE
9110	Phoning the Weather
9111	R O A D
9112	M A D Police
9113	D A N E Police
9114	S T Police
9115	M A D Fire
9116	U W Police

To clear the patch, dial Ø.

QCWA Chapter Receives Charter

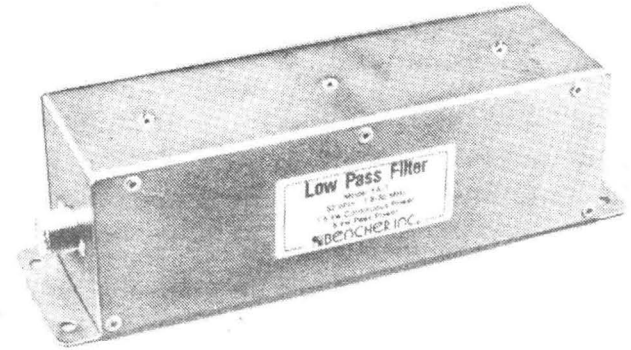


Travis Baird, W9VQD, Quarter Century Wireless Association (QCWA) National Director and also a Wisconsin Chapter 55 Director (left, in photo above) presents the National QCWA chapter charter to Steve Bellgraph, K9ZL, President of the Southeast Wisconsin Chapter 162 during the charter presentation/officer installation ceremonial dinner. Shown below is the specially decorated cake for the new chapter's ceremonial dinner.



(Thanks to Les Peterson, W9YCV, for the above story and photos!)

New Products



BENCHER YA-1 LOW PASS FILTER

Interference problems can be insidious and have distressed virtually every amateur active on the high frequency bands today.

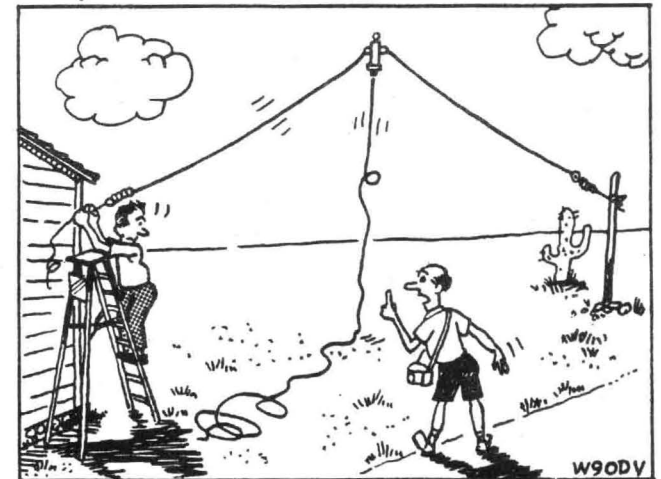
Application of Bencher's Low Pass Filter is the first step the amateur should take to resolve television interference problems.

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(From Bencher Inc. news release)

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Eau Claire Amateur Radio Club

MINUTES OF JANUARY 12, 1988 REGULAR MEETING

Because of severe winter weather, many members did not get to the meeting, so attendance was very low. No officers were present. W9NW acted as general factotum, and moderated the discussions.

The meeting opened at 7:40 p.m. with 18 members present. Reading of the last meeting's minutes was waived, and there was no treasurer's report.

Mike Murphy, N9DXD, asked for volunteers to assist W9NW in scoring the hot air balloon races to be held on the last weekend of January. Flights are scheduled for Saturday and Sunday mornings, weather permitting.

In response to a query, Don, K9UXP, commented on the lack of progress on the feedline replacement on the WEAU tower in Eau Claire, where the 31/91 machine is utilizing a temporary antenna, with consequent loss of signal. The tower crew has

evidently been hampered by bad weather.

John, K9VMW, commented on the recent anniversary (150th) of Morse code. W9ZZI talked about the recent changes in telephone rates affecting those using that system for repeater control. KD9YO, who with KD9OB will direct the next Eau Claire Hamfest, talked briefly about that event, and said that it is not too early to start thinking about it, and making plans. While on the Hamfest subject, K9UXP reported on the recent Waukesha 'fest, and mentioned one upcoming in Medina, MN on February 27th.

Lunch Committee: W9ZZI, W9NW, N9GJU.

Who has K9UXP's frequency counter? Don would like it returned to him.

Meeting adjourned at 8:02 p.m., with full bull session following.

Respectfully submitted,

W9NW, Acting Secretary

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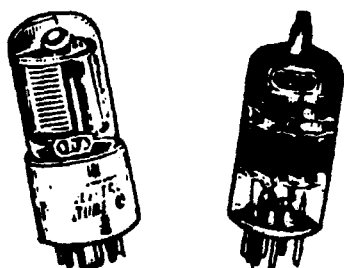
\$12.00 (1 time)	\$10.80 (2X)	\$10.20 (3X)
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These rates are based on camera-ready copy. For more information, and for issue closing dates, contact Harry Westlund, K9EHJ, Advertising Manager, 720 Jefferson Street, Baraboo, WI (608) 356-6836, or Ken Ebner, K9EN, 822 Wauona Trail, Portage, WI (608) 742-3560.

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NEW ARRL PACKET PUBLICATION

Are you one of the many amateurs that have been wondering what all the fuss over packet radio is about? Perhaps you have been awaiting an easy-to-understand book that would answer all your questions. That publication is now here.

Now available from ARRL is the new packet book entitled "Your Gateway to Packet Radio" by Stan Horzepa, W1LOU, the editor of "Gateway." The 205-page publication contains 13 chapters, and 7 appendices, a sampling of which are: The Radio Hacker; Installation; Theory of Operation; VHF and UHF Communications; Public Service Communications; Space Communications; and Networking.

"Your Gateway to Packet Radio" costs \$10 plus \$2.50 for shipping and handling from ARRL Headquarters (225 Main St., Newington, CT 06111) or your local Amateur Radio book dealer. (From The ARRL Letter)

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WEST ALLIS/MIDWINTER SWAPFEST UPGRADES

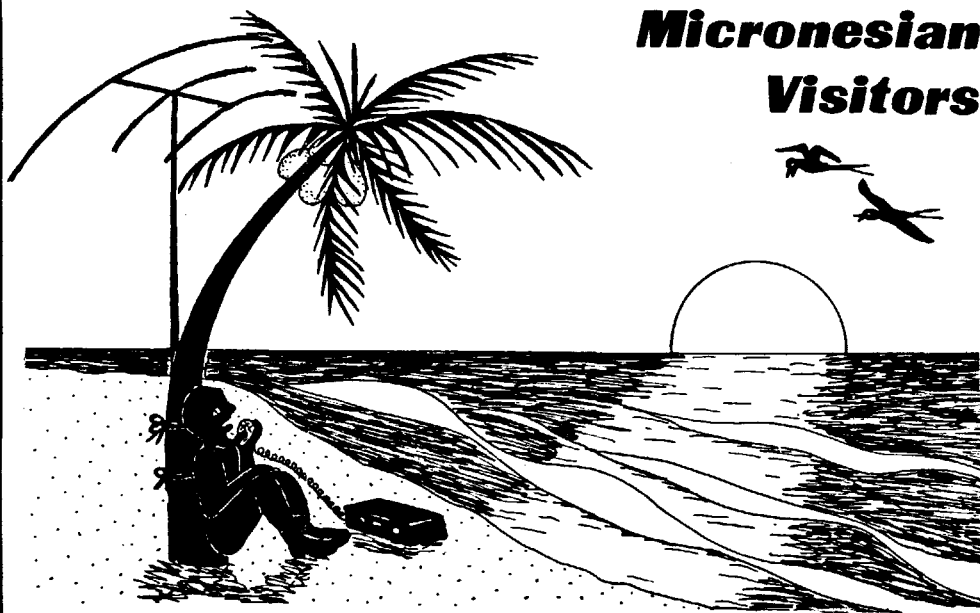
Congratulations to the following, who upgraded at the examinations given by the Badger Examiners at the Midwinter Swapfest, sponsored by the West Allis Radio Amateur Club, on January 9, 1988:

Dennis Campbell, KA9ZXG
Arne Moxness, KA9ZPY
James Goelden
Wade Brown, KBØBEJ
Lee Davis, WB8TSP
August Ferber
Paul Dreis, KA9ZXQ
Gary McIntosh
Vince DiCesare
Marianne Huber, KA9UNO
Greg Weisheipl, KA9WPG

David Black, KA9ZVT
Robert Ronk
Mike Leonaitis
Mark Ferguson, KA9WSN
Rich Perik, KA9OIC
Larry Ventura
Paul Belton, WA9CDY
Gary Sorensen, KA9AYO
Jeremy Brown

(Thanks Mickey Dolgin, KB9G)

Micronesian Visitors



By Nancy Vander Velde, AA6EA
940 Arbolado Road, Santa Barbara, California 93103

In previous years, visitors travelled to Micronesia in Spanish galleons, New England whaling vessels, pirate ships, and Japanese submarines. Today, visitors arrive on modern jets and cruise ships. Yet, although the modes of transportation have changed, the reasons for going have remained very much the same -- Micronesia, with its tropical sun and sparkling ocean, has always been an ideal area to find a haven to relax, renew, and refresh.

The 2,000 islands and atolls of the Pacific which comprise Micronesia were first encountered by the Western World in 1521 during Ferdinand Magellan's historic around the world voyage. Later on, Guam became an important stop-over for the Manila galleons, while during the mid-nineteenth century, Pohnpei and Kosrae became favorite winter retreats for American whalers. A few decades later, Palau, Yap and the Marshalls were profitable locations for Germans to trade for dried coconut and sea cucumber.

Despite all of this international contact throughout the centuries, Micronesia has remained obscurely known, especially when compared to its romanticized neighboring island group, Polynesia. But slowly, ever slowly, visitors are realizing that the many varied islands of Micronesia are a perfect place to vacation.

These modern day "South Sea" travelers no longer bring with them whaling harpoons or calico cloth, but instead, scuba gear, camera gear, and, for a privileged few, their amateur radios to enjoy the ultimate of a tropical DXpedition.

For those holding American licenses, transmitting from the U.S. territory of Guam (KH2) of the United States' Commonwealth of the Northern Marianas (KH0) is no problem. Guam, with its bases, is a particularly popular QTH for hams, especially those whose military assignments have taken them, less willingly than other Micronesian visitors, far from what they call home.

The rest of Micronesia, until a few years ago, was included with the Northern Marianas in the Trust Territory of the Pacific Islands. Now these other countries are in transition into three separate countries, the Republic of Palau (KC6), the Federated States of Micronesia, consisting of Yap, Truk, Pohnpei, and Kosrae (also KC6), and the Republic of the Marshalls (KX6). These new nations are still in a semi-independent state with the United States, and right now, some entities consider them U.S., while to others they are foreign. For hams wishing to keep up their transmission time while visiting any of these islands, it is best to check with both parties first to see what the current status is.

Micronesia is too large and diverse to fully discuss all at once. It spreads over an area of ocean approximately equal to that of the continental United States. It includes a native population speaking over a half dozen distinct languages and doing things according to their own particular customs. This short introduction to the forgotten islands of the Pacific will be followed by a series of reports on Micronesia from an amateur radio operator's point of view. So, until then, just tie the antenna to a coconut palm and enjoy the sunset as the waves crash on the shore.

Yokwe, Len Mwo, Kaselhelia, Ran Annim, Hafa Adai.... and, of course, 73!

Wisconsin Repeaters • By Location

— Courtesy of the Wisconsin Association of Repeaters —

The WISCONSIN ASSOCIATION OF REPEATERS is an organization of trustees and representatives of repeaters, state-wide, whose goal is mutual cooperation on the VHF/UHF spectrum, in the spirit of Amateur Radio.

GENERAL FREQUENCY COORDINATION POLICIES

1. We attempt to place no two repeaters on the same pair closer than 120 miles.
2. We attempt to place no repeater on a 15 kHz split pair closer than 30 miles to any adjacent 30 kHz standard spacing machine.
3. We not only assist proposed repeaters in finding a frequency where possible, but we actively attempt to protect existing repeaters' frequencies from interference whenever possible.
4. W.A.R. has suggested band plans for most of the FM spectrum, a subaudible tone plan for the State of Wisconsin and all necessary information for coordination of new or modifications to existing repeaters. Contact the Frequency Coordinator.

Nels Harvey, WA9JOB
Wisconsin Association of Repeaters
P.O. Box 23928
Milwaukee, WI 53223

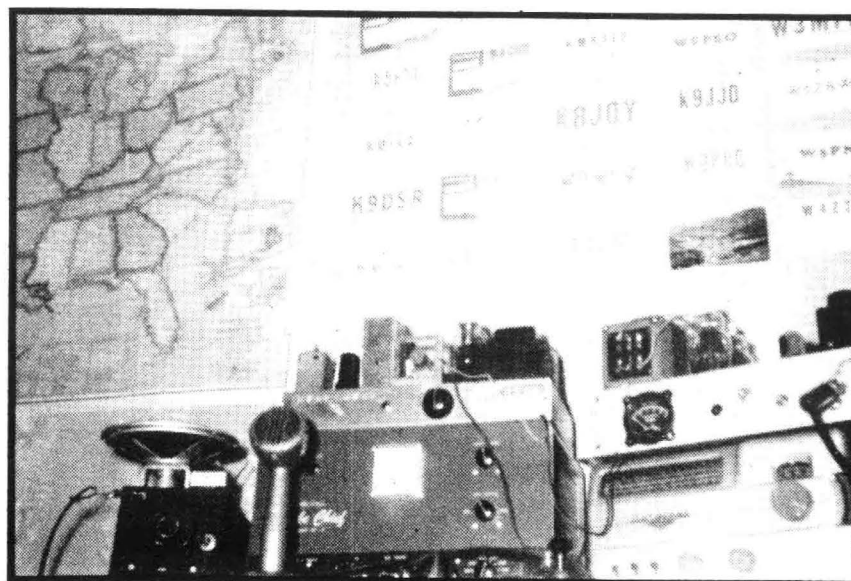
O	Carrier Access	B	Burst
PL	Sub-Audible Continuous Tone	T	Touch-Tone
W	Whistle	C	Closed Private Repeater
A	Autopatch	(CA)	Closed Private Autopatch
E	Emergency Power	L	Link and/or Crossband
P	Portable	R	RACES Affiliated
Y	RTTY/ASCII	Z	Autopatch to Law Enforcement
PAC	Packet Data Exchange		

Wisconsin Sub-Audible Tone Plan By Region			
North Central - 2A	North East - 1B	North West - 2Z	
South Central - 3Z	South East - 3A	South West - 3B	

Location	Rg	Input	Output	Call	Access	Sponsor
ALLENTON	SE	146.175	146.775	KA9HLP/R	O PL	HELPCOM LTD.
ALLENTON	SE	449.350	444.350	WA9THF/R	O	WA9THF
ALMOND	NC	144.810	145.410	KB9QL/R	C	ALMOND RPTR CLUB
APPLETON	NE	144.550	145.150	K9DHR/R	O CA E Z	CO. LINE RPT GROUP
APPLETON	NE	144.610	145.210	KB9IE/R	O PL	PRES GRANT RP ASN
APPLETON	NE	146.160	146.760	K9QQO/R	O	FOX VALLEY VHF ASN
APPLETON	NE	222.900	224.500	KB9IE/R	O A L	KB9IE
APPLETON	NE	448.025	443.025	WB9IYV/R	CLOSED	WB9IYV
APPLETON	NE	448.650	443.650	W9DKY/R	O	W9DKY
BALDWIN	NW	144.530	145.130	K9HQC/R	O Z911	ST. CROIX CTY. CD
BALDWIN	NW	147.930	147.330	K9HQC/R	O	ST. CROIX VAL. R.A.
BARABOO	SC	146.280	146.880	WA9WE/R	O E	CENTRAL WIS RP ASN
BAYFIELD	NW	146.010	146.610	W9NSS/R	O	NORTHLAND ARC
BEAVER DAM	SC	147.915	147.315	N9GGZ/R	O	N9GGZ
BELOIT	SC	146.070	146.670	WA9JTX/R	O	BELOIT ARC
BELOIT	SC	222.700	224.300	WB9UBM/R	O A Z	C.B.S. RPTR GRP.
BERLIN	SC	448.850	443.850	N9A0Z/R	O A	N9A0Z
BURLINGTON	SE	146.145	146.745	W9IGV/R	O PL	HONEY LAKE HAMS R.G.
BURLINGTON	SE	222.460	224.060	N9BBQ/R	O PL A E	SE WIS E R S
BUTTERNUT	NW	439.250	421.230	N9BXA/R	O VIDEO	N9BXA
CEDARBURG	SE	448.250	443.250	W9DHI/R	O PL 2A E	W9DHI
CHIPPEWA FALLS	NW	146.280	146.880	WA9PAM/R	O	WA9PAM
CHIPPEWA FALLS	NW	449.350	444.350	WA9PAM/R	O Z911	WA9PAM
DELAFIELD	SE	146.220	146.820	W900W/R	O A E	SEWFARS
DELAFIELD	SE	449.125	444.125	W9DHI/R	O E PL 2A	W9DHI
DEPERE	NE	448.750	443.750	N9EPC/R	O	N9EPC
DORCHESTER	NC	144.670	145.270	WA9ZCO/R	O E	WA9ZCO-WD9IKF
EAGLE RIVER	NC	144.790	145.390	KD9PT/R	O E	KD9PT
EAU CLAIRE	NW	146.310	146.910	K9UXP/R	O A E	EAU CLAIRE ARC
EAU CLAIRE	NW	147.840	147.240	KA9ELD/R	O	EAU CLAIRE ARC
ELKHORN	SE	146.265	146.865	WA9AJW/R	O A	WALWORTH CO. ARS
FOND DU LAC	NE	147.690	147.090	W9ESH/R	O A E	FOND DU LAC ARC
FOND DU LAC	NE	222.140	223.740	WA4COY/R	O B A	WA4COY
FOND DU LAC	NE	449.150	444.150	WA4COY/R	O B A	WA4COY
FORT ATKINSON	SC	222.820	224.420	N9DTV/R	C	N9DTV
FRANKLIN	SE	449.625	444.625	K9WQG/R	PL 2A	K9WQG
FREMONT	NC	147.615	147.015	N9AOT/R	O	N9AOT
GRAFTON	SE	144.790	145.390	W9HRQ/R	O A	W9HRQ
GRAFTON	SE	147.765	147.165	N9APC/R	O	N9APC
GREEN BAY	NE	147.720	147.120	K9GB/R	O B PL	NE WIS VHF SOCIETY
GREEN BAY	NE	147.960	147.360	K9GB/R	O A PL	GREEN BAY MIKE & KEY
GREEN BAY	NE	222.340	223.940	WA9SXN/R	C	WA9SXN
GREEN BAY	NE	222.540	224.140	KZ90/R	O	KZ90
GREEN BAY	NE	222.620	224.220	K9JQE/R	C	K9JQE
GREEN BAY	NE	449.200	444.200	WB9VJV/A	C	WB9VJV
GREEN LAKE	SC	146.955	146.355	KB9WC/R	O	GREEN LAKE CO. ARC
GREENDALE	SE	449.325	444.325	N9CFG/R	O	N9CFG
GREENFIELD	SE	53.880	52.880	WB9WKR/R	O	GREENFIELD 6'RS
GREENFIELD	SE	222.400	224.000	N9ADQ/R	O A	N9ADQ
HAYWARD	NW	147.810	147.210	W9DLY/R	O	WILD RIVERS ARC
HELENVILLE	SC	448.825	443.825	N9FIB/R	O	N9FIB
HERTEL	NW	221.880	223.480	WB9RAY/R	O A	WB9RAY
HERTEL	NW	448.500	443.500	WB9RAY/R	O A	WB9RAY
HILLSBORO	SW	144.770	145.370	WB9SBD/R	O	WB9SBD
HIXTON	SW	146.340	146.940	KC9YE/R	O	TREMP-JACKSON CTY RA
IRMA	NC	146.130	146.730	K9GTQ/R	O	K9GTQ
JANESVILLE	SC	144.850	145.450	W9ACY/R	O A E	ROCK AUNY TELE SYSTEM
JEFFERSON	SC	144.890	145.490	W9MQB/R	O	TRI-COUNTY ARC
JUNEAU	SC	146.040	146.640	W9TCH/R	O A E Z	ROCK RIVER RC
KENOSHA	SE	223.200	224.800	WB9LST/R	O Z911	WB9LST
KENOSHA/RACINE	SE	147.675	147.075	WA9YTH/R	O A E	WA9YTH
LA CROSSE	SW	144.630	145.230	N9ETD/R	O	FAROUT ARC
LA CROSSE	SW	146.160	146.760	K9CUT/R	O	LA CROSSE RP ASN
LA CROSSE	SW	147.810	147.210	N9BRA/R	O A	N9BRA
LA VALLE	SW	447.400	442.400	W9EBF/R	O	W9EBF
LAC DU FLAMBEAU	NC	146.070	146.670	N9ADA/R	O PL	N9ADA
LODI	SC	147.825	147.225	K9EYY/R	O E	K9EYY
MADISON	SC	146.685	146.085	W9YT/R	O PL A	UW-BADGER ARS
MADISON	SC	146.160	146.760	WB9AER/R	O B A E	MADISON AREA RP ASN

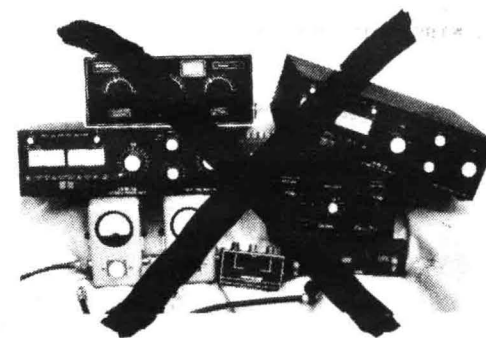
Location	Rg	Input	Output	Call	Access	Sponsor
MADISON	SC	146.340	146.940	W9FZC/R	O E	CENTRAL WIS RP ASN
MADISON	SC	147.750	147.150	WB9AER/R	O B A E	MADISON AREA RP ASN
MADISON	SC	222.220	223.820	WB9RSQ/R	O A	WB9RSQ
MADISON	SC	448.675	443.675	KD9UU/R	O PL A Z	KD9UU
MADISON	SC	449.500	444.500	WB9TAE/R	O	WB9TAE
MANITOWOC	NE	144.590	145.190	WB9MFB/R	O	WB9MFB-WB9DQD
MANITOWOC	NE	146.010	146.610	W9DK/R	O A E	MANICORAD RP ASN
MANITOWOC	NE	147.630	147.030	WB9ESM/R	O A K	WB9ESM
MANITOWOC	NE	222.940	224.540	N9GHE/R		N9GHE
MARSHFIELD	NC	147.780	147.180	W9ISN/R	OAE Z911	MARSHFIELD ARS
MAUSTON	SC	146.250	146.850	W9EJD/R	O	ARC OF CENTRAL WIS.
MEDFORD	NC	147.750	147.150	WA9ZPC/R	O E P	TAYLOR CTY AREA ARC
MENASHA	NE	144.730	145.330	WB9ANR/R	O PL	PRES GRANT RP ASN
MENOMONIE	NW	146.010	146.610	W9WOK/R	O	RED CEDAR RP ASN
MILTON	SC	146.115	146.715	W9FKW/R	O A	W9FKW
MILWAUKEE	SE	29.520	29.620	WB9ZRB/R	O	IND RP SYS
MILWAUKEE	SE	52.030	53.030	WB9TRO/R	O A E	WB9TRO
MILWAUKEE	SE	52.080	52.680	WB9ZRB/R	O	IND RP SYS
MILWAUKEE	SE	144.530	145.130	N9EGR/R	O PL A E Z	MILWAUKEE AREA ARS
MILWAUKEE	SE	144.650	145.250	WB9JBF/R	O	WB9JBF
MILWAUKEE	SE	144.670	145.270	W9FK/R	O Z	WEST ALLIS R A C
MILWAUKEE	SE	146.025	146.625	WB9ZRB/R	O	WB9ZRB
MILWAUKEE	SE	146.070	146.670	W9WK/R	Z	ARES
MILWAUKEE	SE	146.190	146.790	W9HHX/R	O A PL	M50E ARC
MILWAUKEE	SE	146.250	146.850	W9CGU/R	O*PL3A A	MILW CO RP SOCIETY
MILWAUKEE	SE	146.310	146.910	WA9JOB/R	O E Z	MILWAUKEE RPTR CLUB
MILWAUKEE	SE	147.600	147.000	W9PY/R	C	PHANTOM RPTR CLUB
MILWAUKEE	SE	147.045	147.645	WB9CSK/R	C	METRO RPTR SYS
MILWAUKEE	SE	147.105	147.705	K9IFF/R	C	K9IFF
MILWAUKEE	SE	147.930	147.330	N9EDL/R	O PL2A	N9EDL
MILWAUKEE	SE	222.260	223.860	WB9UOS/R	O A E	K8DJE
MILWAUKEE	SE	223.060	224.660	WA9HUX/R	O	EBONY KEY ARC
MILWAUKEE	SE	448.300	443.300	WB9TYT/R	PL2A	WB9TYT
MILWAUKEE	SE	448.550	443.550	K9HXA/A	C	K9HXA
MILWAUKEE	SE	448.700	443.700	WA9HUX/R		E.K.A.R.C.
MILWAUKEE	SE	448.750	443.750	WA9POV/R	PL2A	MILW UHF SOCIETY
MILWAUKEE	SE	448.800	443.800	N9GMT/R	OAEZ PL3A	N9GMT
MILWAUKEE	SE	448.875	443.875	N9GMT/R	OAEZ PL3A	N9GMT
MILWAUKEE	SE	449.200	444.200	K9HXA/A	C	K9HXA
MILWAUKEE	SE	449.250	444.250	N9DII/R	O PL	N9DII
MILWAUKEE	SE	449.300	444.300	W9WK/A	O PL	MILWAUKEE CO ARES
MILWAUKEE	SE	449.800	444.800	K9HXA/A	C	K9HXA
MILWAUKEE	SE	449.850	444.850	WB9TRO/R	O PL A E L	WD9GFY-WB9TRO-WB9HCO
MILWAUKEE	SE	449.875	444.875	WB9TRO/R	C	WD9GFY-WB9TRO-WB9HCO
MILWAUKEE	SE	449.950	444.950	N9EDL/R	O	N9EDL
MILWAUKEE	SE	919.025	907.025	N9EDL/R	O A Z911	N9EDL
MONROE	SC	144.510	145.110	KB9WC/R		KB9WC
NEW BERLIN	SE	147.885	147.285	W9EBF/R	O PL	W9EBF
NEW BERLIN	SE	447.400	442.400	W9EBF/R	O PL	W9EBF
NEW BERLIN	SE	449.500	444.500	WA9AOL/R	O	WA9AOL
NEW HOLSTEIN	NE	147.900	147.300	K9LGR/R	O A E Z	K9LGR
NEW LONDON	NE	146.625	146.025	WB9ICH/R	O	WB9ICH
ONALASKA	SW	223.380	224.980	W9GCR/R	O	W9GCR
OSHKOSH	NE	147.840	147.240	WB9TDU/R	O B A E Z	WINNEBAGO CTY. EG
OSHKOSH	NE	147.345	147.945	N9GHS/R	O PL A EZ	S.O.L.A.R. ASSN.
PARK FALLS	NC	147.600	147.000	WB9WHP/R	O	PRICE CO. RP ASN
PEWAUKEE	SE	147.810	147.210	WB9AKC/R	O PL6A	WA9CQV
PLYMOUTH	SE	223.340	224.940	KD9PE/R	O	KD9PE
PLYMOUTH	SE	449.350	444.350	WB9QCY/R	O	WB9QCY
PORT WASHINGTON	SE	146.370	146.970	W9CQO/R	O A PL E Z	OZAUKEE RADIO CLUB
POWERS LAKE	SE	448.925	443.925	KC9XN/R	O PL2A	LAKE/KENOSHA AMA SOC
RACINE	SE	147.870	147.270	W9UDU/R	OAEZIPR	LAKESHORE RP ASN
RACINE	SE	448.950	443.950	KA9JMK/R	O	KA9JMK
RHINELANDER	NC	146.340	146.940	W9ZZZ/R	O	RHINELANDER RP ASN
RICE LAKE	NW	144.510	145.110	WA9CXN/R	O	WA9CXN
RICE LAKE	NW	147.630	147.030	WB9WFG/R	O	BARRON CO. ARES
RICHLAND CENTER	SW	146.310	146.910	WB9SLI/R	O PL	PINE VALLEY RP ASN
RUBICON	SC	144.750	145.350	WB9KPG/R	O A E Z	WB9KPG
SALEM	SE	222.120	223.720	N9BBQ/R	O A E L Z	N9BBQ
SCHOFIELD	NC	144.630	145.230	WB9JGA/R	O	WB9JGA
SHAWANO	NC	144.750	145.350	WA9BZW/R	O	WA9BZW-N9DGL-KA9NWY
SHEBOYGAN	NE	144.510	145.110	KR9S/R	O	SHEBOYGAN CTY DX ASN
SHEBOYGAN	NE	147.660	147.060	W9RF/R	O A	SHEBOYGAN ARC
SHEBOYGAN	SE	223.340	224.940	KD9PE/R	O LINKED	INPUT TO PLYMOUTH WI
SIREN	NW	147.900	147.300	W9FBN/R	O	NORTHWEST RP ASN
SISTER BAY	NE	147.780	147.180	W9QBJ/R	O	WA9PFQ-W9QBJ-EM GVM
SLINGER	SE	146.130	146.730	W9MOD/R	O B1200	WASHINGTON CO RP GRP
SOUTH MILWAUKEE	SE	144.630	145.230	N9BMH/R	PL E	SO MILW ARC (PROP.)
STEVENS POINT	NC	144.570	145.170	KD9NV/R	O A EZ911	KD9NV
STEVENS POINT	NC	146.070	146.670	WB9QFW/R	O A E	CENT. WI RADIO AMA.
STEVENS POINT	NC	146.385	146.985	W9NN/R	O	CENT. WI RADIO AMA.
STEVENS POINT	NC	448.950	443.950	K9MIF/R	O PL T	K9MIF
STURGEON BAY	NE	146.130	146.730	WB9YUY/R	O	WA9PFQ & WB9YUY
STURGEON BAY	NE	147.810	147.210	W9AIQ/R	OB1800AE	DOOR CTY EMER GOVT
STURGEON BAY	NE	449.000	444.000	WB9YUY/R	O	WB9YUY & K9GOZ
STURTEVANT	SE	29.540	29.640	WA9ZY0/R	O	WA9ZY0
STURTEVANT	SE	223.140	224.740	WA9ZY0/R	O A	WA9ZY0
SULLIVAN	SC	147.855	147.255	WA9VEU/R	O PL	WA9VEU
SUPERIOR	NW	146.160	146.760	W9BWK/R	O	TWIN PORTS AREA RA
SUPERIOR	NW	146.220	146.820	WA9VDW/R	O PL A	TWIN PORTS AREA RA
SUPERIOR	NW	449.900	444.900	WA9KLM/R	O A	WA9KLM
TOMAH	SW	144.790	145.390	N9BOE/R	O	N9BOE
TOMAHAWK	NC	144.830	145.430	N9CLE/R	O A	TOMAHAWK RPT. ASSN.
TOMAHAWK	NC	222.160	223.760	N9CLE/R	O	TOMAHAWK RPT. ASSN.
TREVOR	SE	448.025	443.025	KA9VZD/R	O	KA9VZD
WALES	SE	222.520	224.120	WB9DRO/R	C	WB9DRO
WALES	SE	449.975	444.975	WB9DRO/R	C	WB9DRO
WAUKESHA	SE	147.990	147.390	N9KS/R	O	E.A.R.S.
WAUPACA	NC	147.990	147.390	WA9FDC/R	O	WAUPACA ARC
WAUSAU	NC	144.850	145.450	WB9JGA/R	O	WB9JGA
WAUSAU	NC	146.040	146.640	W9SM/R	O A	WIS VAL RP ASN
WAUSAU	NC	146.220	146.820	W9BCC/R	O E	RIB MTN RP ASN
WAUSAU	NC	222.700	224.300	K9DB/R	O E	CENTAUR
WAUSAU	NC	223.140	224.740	WB9JGA/R	O	WB9JGA
WAUSAU	NC	439.250	421.250	AD9W/R	O E PL	VIDEO
WAUSAU	NC	434.750	425.750	AD9W/R	AURAL	-4.5 IN +4.5 OUT
WAUSAU	NC	449.300	444.300	W9BCC/R	O E	W9BCC
WAUSAU	NC	222.920	224.520	KA9JCP/R	O A E	KA9JCP
WEST ALLIS	SE	147.780	147.180	WA9THF/R	C	WA9THF-WA9HFB
WEST BEND	SE	52.330	53.330	N9DIR/R	O	N9DIR
WIND LAKE	SE	448.500	443.500	N9DIR/R	O	N9DIR
WIND LAKE	SE	449.750	444.750	KA9UNC/R	O	KA9UNC
WINNECONNE	NE	144.690	145.290	N9EJO/R	OPLAEZ911	N9EJO
WIS. RAPIDS	NC	146.190	146.790	W9DQA/R	O	MID-STATE RP ASN
WIS. RAPIDS	NC	147.930	147.330	K9PJB/R	O CA EZ911	WIS. AIRWAYS RP ASN

K9PKQ • 1958



This station was K9PKQ at 416 6th Street in Baraboo 30 years ago. At left is a BC-455 WW II command receiver (broad as a barndoor, but quite sensitive). Bottom center in a Globe Chief - 90 watts from a pair of 807s. On top of the transmitter is a homebrew VFO, "bought" from W9KKM (then in Mauston). (This combination of transmitter and VFO netted a lot of contacts and an advisory notice from the FCC Monitoring Station in Allegan, Michigan.) At right bottom is a National SW-54 receiver (also broad as a barndoor, but less sensitive than the BC-455). Atop the receiver is a homebrew modulator (also "bought" from W9KKM). Many QSOs and a lot of fun were had with this equipment; it also got into the telephone system. NOTE! You can help keep photos like this out of BSSS by sending us pix of current activities! Send 'em to K9ZZ, the address is on page 2.

SONNY IRONS says, "I hate switches, buttons and knobs."



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OR LESS**



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THE WISCONSIN PACKETEER

Wisconsin Amateur Packet Radio Association (WAPR)
P.O. Box 436 Cedarburg, Wisconsin 53012-0436

Steve Loeffler, WB9ZRE, Editor
123 W. Oshkosh St
Ripon, WI 54971

Wisconsin Packet Net

Notice to All Wisconsin Packet enthusiasts!!

Beginning January 16th at 10 AM on 3.985 MHz, there will be a network for the exchange of information, help and tips for all packet operators present and future. The NCS for the net will be Ray, K9ANV. It is hoped that this net will serve as a clearing-house of information on all aspects of PACKET radio to include hardware, software, operating tips and techniques and, hopefully some BBS SYSOPS who can "clear the air" on how to use their respective BBS systems. If you don't have HF capability, perhaps you can arrange to visit a nearby station that does so that you can participate in the net. So, bring your questions to 3.985 at 10 AM Saturday and every Saturday thereafter. Also, if you have some tips that you would like to pass onto your fellow packeteers, please do so. It will be greatly appreciated by all. CU then.

73 from K9UTQ

(Editor's note: This is a VOICE net. Gene is the Wisconsin ARRL Section Traffic Manager.)

Marquette to Madison link

The MQTA/MAD "molehole" link has been performing flawlessly. Rich WB9QHD is working on extending the "molehole" on to Milwaukee. With the help of Dan WB9TYT and Dave WA9POV, they will be installing a UHF NET/ROM node at the Milwaukee end. This will allow users to bypass LAN traffic, by staying "in house" on the "molehole" for longer distances. It will also help speed up the handling of BBS/BBS traffic, message, and files.

Rich has some other plans down the road to possibly further extend the system. Our first hurdle is to solve the needed cross-connecting at MAD. (If we are able to accomplish the extension from MAD to Milwaukee, further extensions could be made. Our biggest problem is there are no "off the shelf" hardware devices available to do what we need. What we basically need is an RS-232 level ONLY, multi-port, NET/ROM based, network node controller. Such a beast ain't made.....YET.

We are also planning on moving a UHF node at NFR (WA9SOU-2), and Doug W9WI-1 BBS will be changing his present 145.010 port to UHF also. All these changes are needed to further expand the "backbone" network.

I'm very pleased to see the co-operation and help from everyone, we're going to eventually have a wide area network to be proud of. Probably

the most unique in the nation, covering extremely long distances, but accessible from any LAN.

Tom - W8OLE

BBS Do's And Don'ts

Within the past few years, there has been a significant growth in the number of BBS's that are now available to packet operators in Wisconsin. There are some basic operating practices that need to be addressed concerning use of a BBS's.

1) If you attempt an access to a BBS, and the you find that response is poor from the bbs, it is either due to poor band conditions or poor path. When this situation occurs, you might try an alternate path, if the problem still persists, do the smart thing and disconnect until you can find a adequate alternate route or band conditions improve. Don't make repeated connects to the BBS and insist on conversing with it, this only results in excessive retrys and ties up the system.

2) When you connect to the BBS, DON'T send any command until the BBS prompts you for one, this is a NO, NO. BBS systems will process every command you send, if you send a "L" command 10 times, the BBS is going to process every request and you are tying the BBS in a loop. If you don't get a response to your command request, it is again due to poor path or band conditions, PLEASE disconnect and try again when conditions are more favorable for you.

3) This one is for new users: If you are unfamiliar with BBS command structure, do the RIGHT THING, ask the BBS for "HELP." Don't fumble around sending meaningless commands that neither you or the BBS understands, you will get absolutely nowhere this way and only be tying up the BBS to process useless information, THIS IS A BIG PROBLEM. I have watched user after user refuse to ask for help and continually send unrecognizable commands to the BBS. All BBS's have an extensive help system "BUILT IN", so use it when in doubt.

If you simply don't understand whats going on, ask a fellow ham or friend of yours who is familiar with BBS operation and comand structure for help. The first text "EVERY USER" is presented with after a connect to a BBS, is that which explains how to get help. I would recommend if you have a printer, to do the following:

After you access, open the buffer to your terminal and issue the command "H ?" (Omit Quotes), the BBS will send you the complete help system. After the BBS has downloaded it's help file to you, close your buffer, disconnect from the BBS, and print the contents of your buffer. Review it carefully before you again access the BBS serving your area. You will find using the BBS to be a more enjoyable experience if you follow the above procedure.

I felt it was appropriate to bring up these points, as there is an extreemly high percentage

of users that continue to access a BBS and fumble about hopelessly. This only accomplishes tying up the system, and making your use of the BBS an unenjoyable experience at best. We Sysops aren't a bunch of hard noses out here, nor do we feel that we're smarter than everyone else, if we did, we wouldn't take the time to try and help you out, help is what this article is all about. You'll find that once you understand whats going on, that the BBS's can provide you a means to move traffic, share ideas with others, be a mail drop for you and your friends, and much more. So, help us along by following a few simple guidelines, and we'll do are best to help you whenever we can.

For those of you that don't have a friend or fellow ham close by that can provide some imform-ative info on BBS command structure, send me an S.A.S.E., and I will be happy to provide you with a hardcopy printout of the command documentation. After reviewing the documentation, you still have some doubts, leave me a message on the BBS, and I will answer your questions to the best of my ability. Here's how you do that:

SP N9BKJ (First command you send to BBS - Wait for response)

Command Help (Title for message when prompted for it by BBS)

You will now be instructed to enter your text and end it with "CTRL Z". When your are finished entering your text, press down the "CTRL" and "Z" key on your keyboard. Your message has now been saved to the BBS, and you may either do other things or disconnect from the BBS when prompted for your next command.

Thats it for now from Bob, Sysop at the N9BKJ BBS, 73's to ALL.

Send S.A.S.E's To
Robert W. Krueger (N9BKJ)
620 Harding Street
Waupaca, Wi. 54981

Need RS-232 Pac for CoCo

I am looking for info on where I may find a RS-232 pack for the CoCo. If anyone out there has one to sell or trade or has any info as to where I may find such an item please get in contact with me.

Messages may left for me one of 2 ways.

1: Leave msg. on WB9TYT.

2: Or leave msg on any of the BBS's on 14.107 to VE1BZV @ VE1AIC.

Thank you for any info you give to me.

Wendell Millman,
201 Beaton Ave.
Summerside, P.E.I. C1N-2N7
Phone: 1-902-888-2980.

KPC-2 Noise Fix

KA0JZV reports he has corrected a noise problem that has plagued him and others in the Duluth, Minnesota area. Noise from his Kantronics KPC-2 TNC was covering up weak signals. To eliminate this problem, he has added a 5-60 PF trimmer capacitor, adjusting the trimmer until the noise on 145.01 disappears. The capacitor is soldered into the holes where it appears C33 should be. If you look at the schematic in the KPC-2 book, C33 is the variable capacitor in parallel with C31, located between XTAL 1 and XTAL 2. C33 is on the schematic, but, is not on the board! We have not talked to Kantronics about why it was removed, but reinstalling it sure reduces the noise generated on 145.01 and doesn't seem to have any adverse effect on TNC operation. Address any comments to KA0JZV @ AF9T

TCP/IP for Mac and Amiga

The KA9Q TCP/IP package is now available for the Apple Macintosh and Commodore Amiga. In addition to packet radio capabilities, the Mac version allows TCP/IP to be used over the AppleTalk network.

I will provide binaries to anyone interested. We also can produce KISS ROMs for TNCs locally. If you have a Mac, or an Amiga, or a PC clone, join us on 145.67 in Madison!

For users of the PC version: a major new version for the PC, including new mail interface, is available now for public FTP from w9nk-pc.

73, Dan - W9NK

Ham Related BBS

Just a reminder to check out the HAM section on the "Tandy BBS" at 608-274-6922. All are welcome, don't let the "Tandy" scare you away.

Bryan

N9ALF...WHAT-A-GUY

In keeping with the tradition of the Pony Express and "The Mail Must Go Thru", Rick (N9ALF) has come to the aid of the "Forwarding Express." OL' N9BKJ had been experiencing some problems with a reliable connect to WA9SXN and Needed to find an alternate and reliable route to SHE.

Up pops OL' N9ALF with the solution to the problem. I am now using Rick's digi as the primary link to SHE and the results are excellent. Rick has agreed to leave his digi on line 24 hours to facilitate the forwarding process to BBS's that are via the SHE NetRom.

I would also like to mention that for those of you that can hit N9ALF in Neenah, WI by whatever path you choose, that he is a solid link to this BBS, pegs the meter here. Again, he has agreed to stay on line 24 hours a day, except for severe weather (lightning), or equipment breakdowns. SXN as always is an alternate route to this BBS.

Bob - N9BKJ SYSOP

Several people have indicated that they would like to see an article or series in 'Packeteer' addressed to potential packet operators. The current publications and especially the TNC operating manuals are not geared toward the beginning packeteer, utilizing technical phrases and assuming the reader has a background in

packet theory. An individual considering packet operations can object to taking the plunge simply because the terminology is too intimidating. In past issues, there have been articles dealing with commands, bulletin board operations and node usage. This is fine for those that are involved in packet radio, but, 'Greek' to persons considering the mode. Therefore, I would like to see someone or a group write articles directed toward these potential enthusiasts. Do to my considerable schedule, I would not be able to provide regular submissions, but I would help in editing drafts that are submitted to 'Packeteer'. Leave a message for me at my 24 hour station or drop a note to me at N9BKJ BBS in Waupaca, WI if you are interested in authoring this important issue.

Steve - WB9ZRE

Editors note: Due to it's size, the following will be presented in two installments. Part I follows:

Glossary of Packet Terms for the Confused

Tired of all those acronyms and 'catch phrases' that are used in packet literature and bulletins? Or are you a newcomer to packet radio? Well, lets clear some of the air here with some of the more common ones you are likely to see and give you a 'nutshell' definition:

ARPA Suite - The set of protocols standardized by the Advanced Research Projects Agency of the US Department of Defense. Includes TCP and IP as elements, but leaves the lower levels (subnetwork and down) deliberately unspecified; the ARPA suite can be run on top of multiple subnetworks, unifying them into a single Internet.

ASCII - (American Standard Code for Information Interchange). A 7-bit character code widely used in computers and communications.

ASLIP - (Asynchronous Serial Line Internet Protocol) Usually just called SLIP. A technique for encoding IP datagrams so they can be sent across ordinary asynchronous modems and communications hardware.

baud - A measure of the rate at which serial data is transmitted, bits per second, but includes both data bits and bits used for synchronization, error checking and other purposes. Common baud rates are 110, 300, 1200, 2400, 4800, and 9600.

BCD - (Binary-Coded Decimal). A representation of decimal numbers in which each decimal digit is coded seperately into a binary number.

buffer - Temporary storage area generally used to hold data before it is transferred to its final destination.

CLNS - (ConnectionLess Network Service). See connectionless, datagram.

CMU/MIT PC/IP - One of the public domain packages that implement the ARPA protocols on the IBM PC and its clones.

connectionless - Refers to a packet protocol or service that does not have the concept of a "connection". Packets may be sent at will,

without prior arrangement or need for connection setup/teardown procedures.

connection-oriented - Refers to a protocol or service that requires that a logical or virtual "connection" first be established with a special procedure before data can be sent. Another procedure is used to "teardown" the connection when it is no longer needed.

CONS - (Connection Oriented Network Service). See connection-oriented, virtual circuit.

COSI - (Connection-oriented Open Systems Interconnect). A project of W2VY and N2DSY to implement for amateur packet radio use the connection-oriented protocols published by the International Standards Organization (ISO) and the International Consultative Committee for Telephony and Telegraphy (CCITT). (OSI protocols include both connection-oriented and connectionless flavors, hence the inclusion of the qualifier "connection-oriented" in the name). The COSI software is presently under development.

CPU - (Central Processing Unit). The control section of the computer which controls its operations, fetchs and executes instructions, and performs arithmetic and logical functions.

checksum - A logical sum that is included in a block of data to guard against recording or transmission errors.

datagram - Information packets in a connectionless environment. Datagrams are completely self-contained as far as the network is concerned. The information needed to get each datagram to its destination (including, but not limited to, full source and destination addresses) is carried in each datagram.

DDN Protocol Suite (Defense Data Network Protocol Suite). See ARPA Protocol Suite.

DCD - (Data Carrier Detect). Circuitry that determines whether intercepted input is legitimate information or 'noise'.

duplex digi - Like a simplex digi, except that different receive and transmit frequencies are used. Allows simultaneous reception and transmission.

EEPROM - (Electrically Erasable Programmable Read-Only Memory). Similar to a RAM integrated circuit in that it can be read and altered (written to), however, unlike RAM, the instructions stored in an EEPROM will be retained when power is removed.

EPROM - (Erasable Programmable Read-Only Memory). A non-volatile memory integrated circuit that can be read but not altered in normal operations. The programing on this IC may be erased by exposure to high intensity ultraviolet radiation and reprogramed with new instructions. Most TNC updates are supplied on EPROMs, rather than ROMs, because manufacturers can reprogram EPROMs as new firmware versions are released, saving the expense of buying new ROMs which generally can be programed only once.

A thanks to Phil - KA9Q in compiling most of what you see in this glossary. Part II will follow next month.

Yellow Thunder

Amateur

Radio

Club

K9ODK
WB9FDZ

The next meeting of the YTARC will be held at 7:30 p.m. Tuesday, February 16, 1988, in room 25 of the Baraboo Civic Center.

The January meeting of the Y.T.A.R.C. was called to order at 7:43 p.m. The following were in attendance:

Harry Westlund	K9EHJ	Baraboo
Jim Romelfanger	K9ZZ	Baraboo
Jim Decker	WB9UQT	Baraboo
Art Kleefisch	W9WSS	Baraboo
Duane Grothorst	KA9HKL	Loganville
Steve Schwoegler	WB9RNL	Wisconsin Dells
Ken Ebnetter	K9EN	Portage

The minutes as published in the B.S.S.S. were accepted as read.

The Treasurer's report was:

Net operating balance of \$184.95
Total balance of \$216.89.

After the Treasurer read his report, a short open discussion was held on club finances.

The matter of Novice classes scheduled to start January 19 (tomorrow) was then discussed. There was some concern about attendance, since severe weather is forecast for tomorrow. All else seems to be in line for class startup.

The club will apply for a special "200" call sign and operate a special station if the license can be gotten.

The Chair then called for ideas for programs for the balance of the year's meetings. Several suggestions were put forth and the list should be complete by next meeting. Subjects so far accepted are A.R.R.L. slide show and a demo on operation and maintenance of a VCR.

With no further business, the Buck Nite drawing was held, and Phil Anderson, W9TP, was the winner. However, not being at the meeting, he was also the loser. Next drawing will be \$10.00.

No further business; the meeting was adjourned at 8:58 p.m.

Respectfully submitted:

Harry Westlund, K9EHJ, Secretary

Birthdays

George Washington, Abraham Lincoln, and others but no YTARCers celebrating Birthdays this month.

Sentence Sermon

Liberty, when it begins to take root, is a plant of rapid growth.

---George Washington

You cannot help men permanently by doing for them what they should be doing for themselves.

---Abraham Lincoln

WNA (continued from page 4) LATE WIN - MANAGER'S REPORT

Ed Rice, W9NGP
W 126 Land Road
Oconomowoc WI 53066

December 31 marks the end of my first quarter as manager of the late WIN. Here are the totals for the quarter:

QNI ----- 468
OFFERED ----- 206
CLEARED ----- 134
PERCENTAGE ----- 65

We have a very dedicated group of expert traffic men who are willing to hang in there when conditions are bad. My special thanks to W9CBE, K9BED and K9UTQ, who accepted NCS assignments when I needed them. W9CXY has been our 9th Region Representative the most times with a total of 16 and W9YCV has the most check-ins with 73.

We are looking forward to more incoming traffic from the late session of the 9th Region Net. And if you bring us traffic at 10:00 p.m., we can take it to the day-time nets the next day.

73, Ed

GLASS ARM REPORT (Wisconsin Slow Speed Net)

Lee G. Andreas, N9BDL
Net Manager
Route 1, 7600 Highway D East
Lake Tomahawk WI 54539-9500
(715) 277-2430

During the December on-air meeting of the WNA, I promised the net statistics would be published in the next report submitted to B.S.S.S. Robert Service, in his poem about the Cremation of Sam McGee, states "Now a promise made is a debt unpaid, and the trail has its own stern code." So the time to pay the debt has arrived.

First, the last quarter of 1987 showed the following:

QNI	QTC	QSP	QTR
510	148	121	1342

That is an increase in traffic offered and traffic passed of 25 each. The time and number of checkins categories dropped slightly.

For the entire year of 1987, the totals are:

QNI	QTC	QSP	QTR
1970	525	381	5332 (88 hrs, 52 mins)

No comparison to the previous year was made. If anyone has a burning desire to get those statistics, drop a S.A.S.E. to Gene, K9UTQ, Section Traffic Manager.

Here is a list of the top 16 stations by ranking of number of checkins: (1) N9BDL - 347; (2) W9NGP - 284; (3) N9FVN - 254; (4) K9BED - 199; (5) W9CXY - 134; (6) AG9G - 121; (7) WB9ICH - 70; (8) KA9FVX - 63; (9) NI9R - 48; (10) NC9G - 44; (11) KA9USV - 44; (12) KY9P - 43; (13) KN9S - 43; (14) N9DGL - 28; (15) KA9OBP - 19; (16) K9LGU - 17. This may not mean much to you unless your call is listed there, but it means a great deal to me. These are the stations that were the backbone and support of the Wisconsin Slow Speed Net during the past year. Thank you lady and gentlemen for that support. Disregard number one, he had to be there.

Just as a net is made up of individual stations, there must be a leader to conduct the group for the night. The Net Control Stations for 1987 are also listed by ranking of number of times he or she was NCS. Once again, ignore the first one, his dog and kids do. (1) N9BDL - 120; (2) AG9G - 49; (3) WB9ICH - 45; (4) NC9G - 40; (5) W9NGP - 38; (6) KY9P - 32; (7) N9FVN - 14; (8) KA9OBP - 11; (9) NI9R - 8; (10) K9BED - 8; (11) NF9A - 1. Thank you again lady and gentlemen.

Just a few notes on recent happenings concerning members of WSSN. Paul, N9FVN, is now the new net delegate. He joins Keith, KY9P, in representing this net to the WNA. Paul is also the new NCS for Tuesday evenings. Les, KA9USV, is the newest member of WSSN to receive a net certificate. Thanks for your checkins and participation. Congratulations to Ed, W9NGP, on taking over as net manager of WIN/L. If WIN/L were on an hour earlier, I might be able to help out with a NCS spot. However, 4:30 a.m. comes extra early up here in the frozen northland.

If it appears to the casual reader that this column is spending more time than usual on the doings of WSSN and its members, you are correct. The stations cited in this report deserve all of this recognition and more. I thank each of you and hope that you will be a part again in 1988 of the Wisconsin Slow Speed Net.

73, Lee, N9BDL, N.M.

FLASH! FLASH! FLASH!

RON THLACHAC W9UW IN WISCONSIN RAPIDS IS THE WINNER OF THE UTQ TRIVIA CONTEST!!! HE BEAT RICH K9GDF BY 11 POINTS. RON WILL GET AN ARRL OPERATING MANUAL FOR HIS EFFORTS. THE MANUAL WILL BE JOINTLY DONATED BY BSSS AND WNA LTD.

GENE K9UTQ

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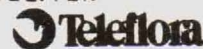
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